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DESCRIPTORS: Automatic. *Arc welding. *Pipes. In-
dustrial equipment. Electromagnets

The present report covers an automatic "fire cracker"
butt welding process which makes it possible to produce
perfect root and finishing beads in any welding position.
Its mode of operation is based on the control of the arc
column by auxiliary magnetic fields whose theory is ex-
plained. A description is given of the equipment which
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DESCRIPTORS: *Mixtures, Weights (Analytical).
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DESCRIPTORS: *Glass, Melting, *Heat exchangers,
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(Materials--Ceramics, TT, v. 9, no. 3)

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DESCRIPTORS: *Brick, *Calcium compounds, Oxides,
*Sand, Hardening, Pressure, Time, Manufacturing
methods.

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